Buffy coat peripheral blood leukocyte immunophenotyping MGP_BCI_001

Purpose

Buffy coat peripheral blood leukocyte immunophenotyping

Procedure

Mice were fed on Mouse Breeder Diet (5021,Labdiet) from weaning

Analysis is performed on the buffy coat obtained from heparinised blood after red blood cell lysis for the following parameters: Percentages of total T cells (CD3$^+$), CD4$^+$ and CD8$^+$ T cells, NKT cells (CD3$^+$ CD161$^+$), NK cells (CD3-CD161$^+$), B cells (CD19$^+$), Granulocytes (CD11b$^+$ Gr1$^+$) and Monocytes (CD11b$^+$ Gr1$^{dim/neg}$ CD161$^-$) are presented relative to the total viable CD45+ population.

Percentages of CD44^{hi} CD62L^{lo} CD4$^+$ T cells and CD25+ regulatory T cells are presented relative to the total CD4$^+$ T cell population.

Percentages of effector of CD44^{hi} CD62L^{lo} CD8$^+$ T cells and mature IgD$^+$ B cells are presented relative to the total CD8$^+$ T cell and B cell populations respectively.

All samples are acquired on a BD LSR II with dead cells excluded with the use of a viability indicator.

All analysis is performed using FlowJo software.

Parameters and Metadata

T cell CD3+ percentage MGP_BCI_001_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** false   **Is Annotated:** true

Unit Measured: %

Description: t_cell_cd3_percentage

T cell CD4+ percentage MGP_BCI_002_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: t_cell_cd4_percentage

Treg cell CD25+ percentage MGP_BCI_003_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: treg_cell_cd25_percentage

T cell CD8+ percentage MGP_BCI_004_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: t_cell_cd8_percentage

NK cell percentage MGP_BCI_005_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: nk_cell_percentage

NKT cell percentage MGP_BCI_006_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: nkt_cell_percentage

CD4+CD44+CD62L- percentage MGP_BCI_007_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** false   **Is Annotated:** true

Unit Measured: %

Description: cd4_cd44_cd62l_percentage

CD8+CD44+CD62L- percentage MGP_BCI_008_001 | v1.0
simpleParameter

Req. Analysis: false   **Req. Upload:** false   **Is Annotated:** true

Unit Measured: %

Description: cd8_cd44_cd62l_percentage

B cell CD19+ percentage MGP_BCI_009_001 | v1.0
simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: b_cell_cd19_percentage

Mature B cell IgD+ percentage MGP_BCI_010_001 | v1.0
simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: mature_b_cell_igd_percentage

Granulocyte Gr1+ percentage MGP_BCI_011_001 | v1.0
simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: granulocyte_gr1_percentage

Monocyte percentage MGP_BCI_012_001 | v1.0
simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** true

Unit Measured: %

Description: monocyte_percentage

Equipment manufacturer MGP_BCI_013_001 | v1.0
procedureMetadata

Req. Analysis: true   **Req. Upload:** true   **Is Annotated:** false

Description: equipment_manufacturer

Options: BD Biosciences, Beckman Coulter,

Equipment model MGP_BCI_014_001 | v1.0

procedureMetadata

Req. Analysis: true   **Req. Upload:** true   **Is Annotated:** false

Description: equipment_model

Options: LSR II, FC500,

Anesthesia used for blood collection MGP_BCI_015_001 | v1.0

procedureMetadata

Req. Analysis: true   **Req. Upload:** true   **Is Annotated:** false

Description: anesthesia_used_for_blood_collection

Options: Injection narcosis with Ketamine (100mg/kg)/Xylazine (10mg/kg),
Injection narcosis with Tribromoethanol (Avertin),

Comment MGP_BCI_016_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** false   **Is Annotated:** false

Description: comment